



8CH Real-Time MPEG-4 Digital Disk Recorder supporting 200 ips (PAL)

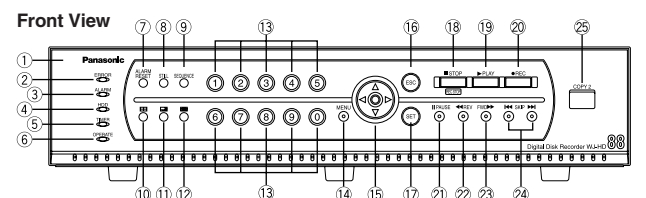
Key Features

- Records all 8 cameras at 25 ips (PAL)
- MPEG-4: High quality and high compression technology for economical recording
- Panasonic camera control via RS-485: Camera control can be made by front panel buttons, system controller or the monitoring software.
- Various Recording Modes: Manual, Timer, Event (Pre/Post)
- Flexible Recording/Playback Controls: Recorder control can be made by the front panel buttons, a system controller or the monitoring software.
- Various Display Modes: 4 / 6 / 9 split screen display (Live)
- 8 alarm inputs and 3 alarm outputs
- Synchronized audio recording for 8 channels
- Search menu includes camera channel, time date and event.
- 3 user levels: Manager, Operator and Viewer
Camera partitioning setting can be applied to each user level.
- VMD (Video Motion Detector): Mask area: 14 x 10, Sensitivity: 01 ~ 99
- Recorded image data can be copied to USB HDD via COPY interface. Copied data can be played-back by the USB Client.
- A maximum of 2 TB (8x 250 GB) hard disk drives can be installed.
- Optional WV-CU650 or WV-CU950 system controllers can be connected (RS-485). Playback speed can be controlled by Jog/Shuttle.
- Built-in network interfaces (10Base-T/100Base-TX) for remote monitoring and operation
- NetClient software (provided) enables Multi-recorder, Multi-site system, local recording and downloading recorded video and audio data to the client PC. Downloaded data can be transported by external storage media and played-back by the viewer software (provided).
- Up to 8 network clients can access a recorder at a time.
- Camera icons can be arranged in the map (bit map image).
- Alarm Center function can monitor and display alarms activated in multiple recorders.
- The clock of multiple recorders can be synchronized by the Time Sync Client.

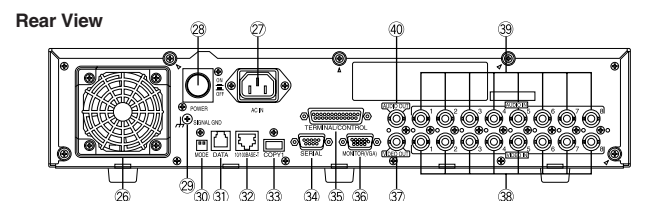
Standard Accessories

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| • CD-ROM* 1 pc. | The followings are for installation. |
| • Operating Instructions 1 pc. | • Power cable (for PAL model) 2 pcs. |
| * The followings are included on the CD-ROM. | • HDD mounting screw, sleeve, damper (for WJ-HD88/G5) 24 pcs. each. |
| • Network Operating Instructions (PDF) | • Rack mounting brackets 2 pcs. |
| • Monitoring software (NetClient) | • Fixing screw for rack mounting brackets 8 pcs. |
| • Viewer software | |

Part Names and Functions



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|-----------------------------|----------------------------|----------------------------|
| ① Front Panel | ⑩ 4-split Screen Button | ⑲ Play Button |
| ② Error Indicator | ⑪ 6-split Screen Button | ⑳ Recording Button |
| ③ Alarm Indicator | ⑫ 9-split Screen Button | ㉑ Pause Button |
| ④ HDD Access Indicator | ⑬ Camera Selection Buttons | ㉒ Fast Reverse Play Button |
| ⑤ Timer Recording Indicator | ⑭ Menu Button | ㉓ Fast Forward Play Button |
| ⑥ Operate Indicator | ⑮ Direction Button | ㉔ Skip Playback Button |
| ⑦ Alarm Reset Button | ⑯ Cancel Button | ㉕ Copy Connector |
| ⑧ Still Button | ⑰ Set Button | |
| ⑨ Sequence Button | ⑱ Stop Button | |



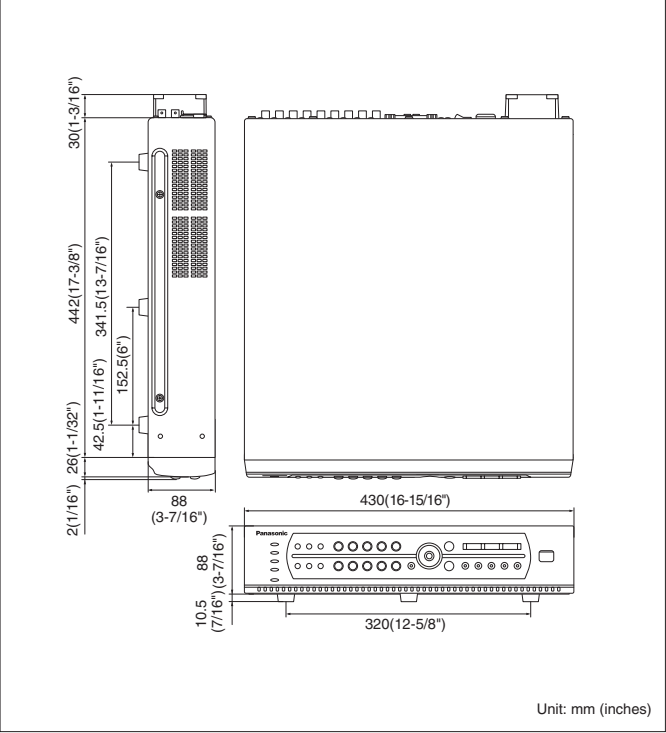
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|--------------------------------|-----------------------------|---------------------------|
| ②⑥ Power Cooling Fan | ③① Data Port | ③⑥ VGA Output Port |
| ②⑦ AC Power Connector | ③② 10Base-T/100Base-TX Port | ③⑦ Video Output Connector |
| ②⑧ Power Switch | ③③ Copy Port | ③⑧ Video Input Connectors |
| ②⑨ Signal Ground Terminal | ③④ Serial Data Port | ③⑨ Audio Input Connectors |
| ③① Mode Selection DIP Switches | ③⑤ Terminal/Control Port | ④① Audio Output Connector |

Specifications

TV System		PAL
Audio / Video IF	Video Inputs	8x 1.0 V [p-p] / 75 Ω PAL composite video inputs (BNC)
	Video Outputs	Monitor 1: 1.0 V [p-p] / 75 Ω PAL composite video signal (BNC) Monitor 2: RGB output (15 pin D-sub)
	Audio Inputs	8x –10 dB 22 KΩ (BNC)
	Audio Output	1x –10 dBV, 22 KΩ (BNC)
Audio / Video Format	Video Format	CIF (352 x 288 pixels)
	Video Format	MPEG-4: Super Fine (SF), Fine (FQ), Good (GQ), Normal (NQ), Extended (EX), Independent for each camera
	(Recording and NW) Color Mode	4 : 1 : 1
	Audio Compression Method	ADPCM 8 Kbps, 8 Bit
Recording	Recording Mode	Manual (Power ON start available), Alarm, Timer (schedule)
	Timer (Schedule)	One program, 2 time zone/day, Independent time zone setup for each day of the week or daily.
	REC Mode	
	Frame Rate / Camera	Full / 1/2F / 1/4F / 1/8F / 1/16F, Independent for each camera except for manual REC
	Frame Rate Total	200 ips
	Pre-alarm Recording	Minimum 5 sec.
Main Unit Functions	Camera Control	Pan/Tilt, Zoom, Focus, Iris, Preset position call and program (up to 256), Auto mode, Setup menu
	REC/Playback Control	REC, PLAY, Pause, Stop, Fast Rev Play (3 steps), Fast Fwd Play (3 steps), Slow Play, Next Record, Prev Record, Step Fwd
	Search Mode	Search criteria: Time date, Record type, Camera number
	Display Mode	4 / 6 / 8 split screen display (Live), Spot sequence, Dwell time 2 ~ 30 sec.
	Camera Title	Alpha numeric, Up to 10 characters
	Clock Display	OSD, Image embedded, 24H (fix), Date: yyyy/mm/dd (fix)
	Time Synchronization	By the Monitoring Software (provided)
	VMD	Mask area: 14 x 10, Sensitivity: 01 ~ 99
	Video Loss Detection	Supported (Sync Level)
	Copy to External Media	Recorded images can be copied to external HDD
	User Level/Registrations	3 levels: Manager (1 user), Operator (1 user), Viewer (1 user), User level-Camera partitioning available. Applicable for Main unit and NW users
	System Log	System log (300), Event log (300)
	System Setup	OSD Setup menu (English, Chinese, Japanese)
Alarm	Alarm Source	8x Terminal inputs, VMD
	Alarm Action	Alarm recording, Alarm message, Camera spot with positioning, Terminal output, Buzzer, LED
	Alarm Control	Reset
Alarm Log	Alarm Log	300
	Network Interface	10Base-T / 100Base-TX (RJ-45)
	Maximum Bandwidth	Apporox. 14 Mbps (Data download at Non-recording status)
Supported Protocol	Supported Protocol	TCP/IP, UDP/IP
	No. of Simultaneous Users	8x spot or 2x Quad or 1x 9 split (Total number of displays is 8)
	Security Method	User authentication
External IF	Alarm/Control Connector	Alarm 8x Terminal inputs (25 pin D-sub, Make contact), 3x Alarm outputs (25 pin D-sub, Relay, N.O./N.C)
	DATA Interface	1x RS-485 (RJ-11) PS-Data compatible for control from WV-CU650, WV-CU950
	RS-485 Camera Interface	1x RS-485 (RJ-11), 4wire, full duplex, for 1 ~ 8 CH
	Copy Interface	High speed serial interface (USB TypeA connector front/rear)
HDD	HDD	WJ-HD88/G5: 2x 3.5 inch 250 GB HDD, Up to 8x 500 GB HDDs can be installed.
General Specifications	Safety/EMC Standard	CE (EN60065, EN55022 ClassB, EN55024), GOST (GOST R 51558)
	Power Source	220 ~ 240 AC, 50 Hz
	Power Consumption	120 W
	Ambient Operating Temperature	+5 °C ~ +45 °C (41 °F ~ 113 °F)
	Ambient Operating Humidity	5 % ~ 90 % (without condensation)
	Dimensions	430 mm (W) x 88 mm (H) x 470 mm (D) (16-15/16" (W) x 3-7/16" (H) x 18-1/2" (D)) (excluding rubber feet and projections)
Weight	Weight	WJ-HD88/G5: 10.0 kg (22.0 lbs.)
Functions with System Controller	Camera Control	Pan/Tilt, Zoom, Focus, Iris, Preset position call and program (up to 256), Auto mode, Setup menu
	REC/Playback Control	REC, PLAY, Pause, Stop, Fast Rev Play (3 steps), Fast Fwd Play (3 steps), Slow Play, Next Record, Prev Record, Step Fwd

TV System		PAL
Monitoring Software	Number of Recorder Registrations	Unlimited
	Camera Control	Pan/Tilt, Zoom, Focus
	Recorder Control	REC, PLAY, Pause, Stop, Prev Record, Next Record, Next Image, Play Speed (1, 2, 4, 1/2, 1/4 times), Time Slider
	Search Mode	Search criteria: Time date, Record type, Camera number
	Display Mode	1 / 4 / 6 / 9 split screen display (Live/Playback), Sequence display
	Map Display	One map per recorder including 8 camera icons
	Record Download	Supported
	Camera Title	Up to 24 alphanumeric characters
	Recorder Title	Up to 24 alphanumeric characters
	Clock Display	OSD, Image embedded, 24H (fix), Date: yyyy/mm/dd (fix)
	Audio	AUX: Bi-directional between client PC and Recorder with the remote talk function. Audio input 1 ~ 8: Single directional from recorder to PC (Live and Playback)
	Alarm Notification	Alarm at a recorder can be notified by alarm center function
	Local Recording	Possible for Local recording of single channel at a time
	Local Search and Playback	Downloaded records and local recordings can be searched by camera channel and time date, and played-back locally.
Viewer Software	Recorder Setup	GUI Setup menu
	Logs	System log, Event log
	GUI Language	English, Chinese, Japanese
	Required PC	CPU: Intel® Pentium® 4 2.4 GHz or faster, RAM: 512 MB or more, VRAM: 64 MB or more, Overlay compatible, Microsoft® DirectX® 8.0a or later
	Supported OS	Microsoft® Windows® XP Home/Professional SP2 English, Microsoft® Windows® 2000 Professional SP4 English
Viewer Software	Playback Control	Play, Pause, Speed (0.3 ~ 4x), Prev Record, Next Record, Next Image
	Additional Functions	Save as Bitmap, Local cutout copy, Audio ON/OFF.
Supported OS	Supported OS	Microsoft® Windows® XP Home/Professional SP2 English, Microsoft® Windows® 2000 Professional SP4 English

Appearance



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Important
– Safety Precaution: carefully read the operating instructions and installation manual before using this product.
– Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.

- All TV pictures are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.
- These products may be subject to export control regulations.
- All product pictures are NTSC models.

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